

Release notes for ENDF/B Development n-068\_Er\_166  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=6837, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=6837, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      175 TO      331
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=6837, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=6837, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      175
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=6837, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      333
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      515
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      583
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      651
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 16 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      674
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 694

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 705

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 729

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 32 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 32  
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 749

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 761

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 776

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 790

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 804

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 55 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 55 | RECORD NUMBER | 817 |
| SECTION 3/ 55 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 56 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 56 | RECORD NUMBER | 830 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 57 | RECORD NUMBER | 843 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 58 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 58 | RECORD NUMBER | 856 |
| SECTION 3/ 58 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 59 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 59 | RECORD NUMBER | 869 |
| SECTION 3/ 59 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 60 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 60 | RECORD NUMBER | 881 |
| SECTION 3/ 60 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 61 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 61 | RECORD NUMBER | 893 |
| SECTION 3/ 61 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 62 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 62 | RECORD NUMBER | 905 |
| SECTION 3/ 62 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 63 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 63 | RECORD NUMBER | 917 |
| SECTION 3/ 63 NOT IN DIRECTORY            |               |     |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 64 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 64 | RECORD NUMBER | 929 |
| SECTION 3/ 64 NOT IN DIRECTORY            |               |     |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 65 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 65 | RECORD NUMBER | 941 |
| SECTION 3/ 65 NOT IN DIRECTORY            |               |     |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 66 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 66 | RECORD NUMBER | 953 |
| SECTION 3/ 66 NOT IN DIRECTORY            |               |     |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 67 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 67 | RECORD NUMBER | 965 |
| SECTION 3/ 67 NOT IN DIRECTORY            |               |     |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 68 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 68 | RECORD NUMBER | 977 |
| SECTION 3/ 68 NOT IN DIRECTORY            |               |     |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 69 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 69 | RECORD NUMBER | 989 |
| SECTION 3/ 69 NOT IN DIRECTORY            |               |     |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 70 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 70 | RECORD NUMBER | 1001 |
| SECTION 3/ 70 NOT IN DIRECTORY            |               |      |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 71 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 71 | RECORD NUMBER | 1013 |
| SECTION 3/ 71 NOT IN DIRECTORY            |               |      |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 72 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 72 | RECORD NUMBER | 1025 |
| SECTION 3/ 72 NOT IN DIRECTORY            |               |      |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 73 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 73 | RECORD NUMBER | 1037 |
| SECTION 3/ 73 NOT IN DIRECTORY            |               |      |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 74 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 74 | RECORD NUMBER | 1049 |
| SECTION 3/ 74 NOT IN DIRECTORY            |               |      |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT= 91 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT= 91 | RECORD NUMBER | 1061 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |      |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT=102 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT=102 | RECORD NUMBER | 1072 |
| SECTION 3/102 NOT IN DIRECTORY            |               |      |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT=103 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT=103 | RECORD NUMBER | 1129 |
| SECTION 3/103 NOT IN DIRECTORY            |               |      |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT=104 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 3, MT=104 | RECORD NUMBER | 1158 |
| SECTION 3/104 NOT IN DIRECTORY            |               |      |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT=105 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 3, MT=105 |                    |
|  | SECTION 3/105 NOT IN DIRECTORY            | RECORD NUMBER 1181 |
40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 3, MT=107 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 3, MT=107 |                    |
|  | SECTION 3/107 NOT IN DIRECTORY            | RECORD NUMBER 1201 |
41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 2 (0): Directory (b)*
- |  |  |                    |
|--|--|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 2 |                    |
|  | SECTION 4/ 2 NOT IN DIRECTORY            | RECORD NUMBER 1239 |
42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 16 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 16 |                    |
|  | SECTION 4/ 16 NOT IN DIRECTORY            | RECORD NUMBER 1381 |
43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 17 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 17 |                    |
|  | SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER 1384 |
44. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 22 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 22 |                    |
|  | SECTION 4/ 22 NOT IN DIRECTORY            | RECORD NUMBER 1387 |
45. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 28 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 28 |                    |
|  | SECTION 4/ 28 NOT IN DIRECTORY            | RECORD NUMBER 1390 |
46. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 32 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 32 |                    |
|  | SECTION 4/ 32 NOT IN DIRECTORY            | RECORD NUMBER 1393 |
47. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 51 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 51 | RECORD NUMBER | 1396 |
| SECTION 4/ 51 NOT IN DIRECTORY            |               |      |
48. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 52 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 52 | RECORD NUMBER | 1556 |
| SECTION 4/ 52 NOT IN DIRECTORY            |               |      |
49. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 53 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 53 | RECORD NUMBER | 1672 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
50. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 54 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 54 | RECORD NUMBER | 1779 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
51. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 55 | RECORD NUMBER | 1880 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
52. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 56 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 56 | RECORD NUMBER | 1979 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
53. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 57 | RECORD NUMBER | 2076 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
54. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 58 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 58 | RECORD NUMBER | 2173 |
| SECTION 4/ 58 NOT IN DIRECTORY            |               |      |
55. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 59 (0): Directory (b)*



- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 59 | RECORD NUMBER | 2265 |
| SECTION 4/ 59 NOT IN DIRECTORY            |               |      |
56. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 60 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 60 | RECORD NUMBER | 2357 |
| SECTION 4/ 60 NOT IN DIRECTORY            |               |      |
57. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 61 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 61 | RECORD NUMBER | 2449 |
| SECTION 4/ 61 NOT IN DIRECTORY            |               |      |
58. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 62 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 62 | RECORD NUMBER | 2541 |
| SECTION 4/ 62 NOT IN DIRECTORY            |               |      |
59. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 63 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 63 | RECORD NUMBER | 2631 |
| SECTION 4/ 63 NOT IN DIRECTORY            |               |      |
60. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 64 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 64 | RECORD NUMBER | 2723 |
| SECTION 4/ 64 NOT IN DIRECTORY            |               |      |
61. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 65 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 65 | RECORD NUMBER | 2813 |
| SECTION 4/ 65 NOT IN DIRECTORY            |               |      |
62. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 66 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 66 | RECORD NUMBER | 2905 |
| SECTION 4/ 66 NOT IN DIRECTORY            |               |      |
63. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 67 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 67 | RECORD NUMBER | 2997 |
| SECTION 4/ 67 NOT IN DIRECTORY            |               |      |
64. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 68 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 68 | RECORD NUMBER | 3087 |
| SECTION 4/ 68 NOT IN DIRECTORY            |               |      |
65. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 69 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 69 | RECORD NUMBER | 3177 |
| SECTION 4/ 69 NOT IN DIRECTORY            |               |      |
66. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 70 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 70 | RECORD NUMBER | 3267 |
| SECTION 4/ 70 NOT IN DIRECTORY            |               |      |
67. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 71 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 71 | RECORD NUMBER | 3357 |
| SECTION 4/ 71 NOT IN DIRECTORY            |               |      |
68. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 72 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 72 | RECORD NUMBER | 3449 |
| SECTION 4/ 72 NOT IN DIRECTORY            |               |      |
69. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 73 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 73 | RECORD NUMBER | 3538 |
| SECTION 4/ 73 NOT IN DIRECTORY            |               |      |
70. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 74 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 74 | RECORD NUMBER | 3629 |
| SECTION 4/ 74 NOT IN DIRECTORY            |               |      |
71. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 4, MT= 91 (0): Directory (b)*

- ERROR(S) FOUND IN MAT=6837, MF= 4, MT= 91  
SECTION 4/ 91 NOT IN DIRECTORY RECORD NUMBER 3718
72. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 5, MT= 16 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF= 5, MT= 16  
SECTION 5/ 16 NOT IN DIRECTORY RECORD NUMBER 3810
73. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 5, MT= 17 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF= 5, MT= 17  
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 4100
74. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 5, MT= 22 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF= 5, MT= 22  
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 4218
75. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 5, MT= 28 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF= 5, MT= 28  
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 4636
76. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 5, MT= 32 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF= 5, MT= 32  
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 4924
77. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF= 5, MT= 91 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF= 5, MT= 91  
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 5061
78. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 16 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 16  
SECTION 12/ 16 NOT IN DIRECTORY RECORD NUMBER 5532
79. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT= 16 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 16  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

80. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 17 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 17  
SECTION 12/ 17 NOT IN DIRECTORY RECORD NUMBER 5541
81. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT= 17 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 17  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
82. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 22 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 22  
SECTION 12/ 22 NOT IN DIRECTORY RECORD NUMBER 5548
83. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT= 22 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 22  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
84. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 28 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 28  
SECTION 12/ 28 NOT IN DIRECTORY RECORD NUMBER 5558
85. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT= 28 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 28  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
86. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 51 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 51  
SECTION 12/ 51 NOT IN DIRECTORY RECORD NUMBER 5567
87. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 52 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 52  
SECTION 12/ 52 NOT IN DIRECTORY RECORD NUMBER 5571
88. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 53 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 53 |                    |
|  | SECTION 12/ 53 NOT IN DIRECTORY           | RECORD NUMBER 5575 |
89. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 54 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 54 |                    |
|  | SECTION 12/ 54 NOT IN DIRECTORY           | RECORD NUMBER 5579 |
90. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 55 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 55 |                    |
|  | SECTION 12/ 55 NOT IN DIRECTORY           | RECORD NUMBER 5584 |
91. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 56 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 56 |                    |
|  | SECTION 12/ 56 NOT IN DIRECTORY           | RECORD NUMBER 5589 |
92. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 57 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 57 |                    |
|  | SECTION 12/ 57 NOT IN DIRECTORY           | RECORD NUMBER 5593 |
93. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 58 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 58 |                    |
|  | SECTION 12/ 58 NOT IN DIRECTORY           | RECORD NUMBER 5599 |
94. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 59 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 59 |                    |
|  | SECTION 12/ 59 NOT IN DIRECTORY           | RECORD NUMBER 5604 |
95. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 60 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 60 |                    |
|  | SECTION 12/ 60 NOT IN DIRECTORY           | RECORD NUMBER 5609 |
96. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 61 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 61 |                    |
|  | SECTION 12/ 61 NOT IN DIRECTORY           | RECORD NUMBER 5613 |
97. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 62 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 62 |                    |
|  | SECTION 12/ 62 NOT IN DIRECTORY           | RECORD NUMBER 5618 |
98. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 63 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 63 |                    |
|  | SECTION 12/ 63 NOT IN DIRECTORY           | RECORD NUMBER 5623 |
99. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 64 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 64 |                    |
|  | SECTION 12/ 64 NOT IN DIRECTORY           | RECORD NUMBER 5627 |
100. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 65 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 65 |                    |
|  | SECTION 12/ 65 NOT IN DIRECTORY           | RECORD NUMBER 5633 |
101. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 66 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 66 |                    |
|  | SECTION 12/ 66 NOT IN DIRECTORY           | RECORD NUMBER 5638 |
102. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 67 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 67 |                    |
|  | SECTION 12/ 67 NOT IN DIRECTORY           | RECORD NUMBER 5643 |
103. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 68 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=12, MT= 68 |                    |
|  | SECTION 12/ 68 NOT IN DIRECTORY           | RECORD NUMBER 5648 |
104. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 69 (0): Directory (b)*

- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 69  
SECTION 12/ 69 NOT IN DIRECTORY RECORD NUMBER 5653
105. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 70 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 70  
SECTION 12/ 70 NOT IN DIRECTORY RECORD NUMBER 5657
106. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 71 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 71  
SECTION 12/ 71 NOT IN DIRECTORY RECORD NUMBER 5662
107. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 72 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 72  
SECTION 12/ 72 NOT IN DIRECTORY RECORD NUMBER 5666
108. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 73 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 73  
SECTION 12/ 73 NOT IN DIRECTORY RECORD NUMBER 5672
109. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 74 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 74  
SECTION 12/ 74 NOT IN DIRECTORY RECORD NUMBER 5676
110. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT= 91 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 91  
SECTION 12/ 91 NOT IN DIRECTORY RECORD NUMBER 5684
111. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT= 91 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT= 91  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
112. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT=102 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=102  
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 5695

113. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT=102 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=102  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
114. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT=103 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=103  
SECTION 12/103 NOT IN DIRECTORY RECORD NUMBER 5709
115. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT=103 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=103  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
116. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT=104 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=104  
SECTION 12/104 NOT IN DIRECTORY RECORD NUMBER 5720
117. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT=104 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=104  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
118. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=12, MT=107 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=107  
SECTION 12/107 NOT IN DIRECTORY RECORD NUMBER 5730
119. Missing a gamma spectrum for continuum of gammas  
*MAT=6837, MF=12, MT=107 (1): No gamma spectrum*
- ERROR(S) FOUND IN MAT=6837, MF=12, MT=107  
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
120. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 16 (0): Directory (b)*
- ERROR(S) FOUND IN MAT=6837, MF=14, MT= 16  
SECTION 14/ 16 NOT IN DIRECTORY RECORD NUMBER 5744
121. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 17 (0): Directory (b)*



- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 17 |                    |
|  | SECTION 14/ 17 NOT IN DIRECTORY           | RECORD NUMBER 5746 |
122. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 22 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 22 |                    |
|  | SECTION 14/ 22 NOT IN DIRECTORY           | RECORD NUMBER 5748 |
123. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 28 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 28 |                    |
|  | SECTION 14/ 28 NOT IN DIRECTORY           | RECORD NUMBER 5750 |
124. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 51 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 51 |                    |
|  | SECTION 14/ 51 NOT IN DIRECTORY           | RECORD NUMBER 5752 |
125. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 52 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 52 |                    |
|  | SECTION 14/ 52 NOT IN DIRECTORY           | RECORD NUMBER 5754 |
126. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 53 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 53 |                    |
|  | SECTION 14/ 53 NOT IN DIRECTORY           | RECORD NUMBER 5756 |
127. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 54 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 54 |                    |
|  | SECTION 14/ 54 NOT IN DIRECTORY           | RECORD NUMBER 5758 |
128. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 55 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 55 |                    |
|  | SECTION 14/ 55 NOT IN DIRECTORY           | RECORD NUMBER 5760 |
129. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 56 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 56 |                    |
|  | SECTION 14/ 56 NOT IN DIRECTORY           | RECORD NUMBER 5762 |
130. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 57 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 57 |                    |
|  | SECTION 14/ 57 NOT IN DIRECTORY           | RECORD NUMBER 5764 |
131. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 58 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 58 |                    |
|  | SECTION 14/ 58 NOT IN DIRECTORY           | RECORD NUMBER 5766 |
132. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 59 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 59 |                    |
|  | SECTION 14/ 59 NOT IN DIRECTORY           | RECORD NUMBER 5768 |
133. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 60 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 60 |                    |
|  | SECTION 14/ 60 NOT IN DIRECTORY           | RECORD NUMBER 5770 |
134. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 61 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 61 |                    |
|  | SECTION 14/ 61 NOT IN DIRECTORY           | RECORD NUMBER 5772 |
135. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 62 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 62 |                    |
|  | SECTION 14/ 62 NOT IN DIRECTORY           | RECORD NUMBER 5774 |
136. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 63 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 63 |                    |
|  | SECTION 14/ 63 NOT IN DIRECTORY           | RECORD NUMBER 5776 |
137. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 64 (0): Directory (b)*

- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 64 |               |      |
|  | SECTION 14/ 64 NOT IN DIRECTORY           | RECORD NUMBER | 5778 |
138. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 65 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 65 |               |      |
|  | SECTION 14/ 65 NOT IN DIRECTORY           | RECORD NUMBER | 5780 |
139. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 66 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 66 |               |      |
|  | SECTION 14/ 66 NOT IN DIRECTORY           | RECORD NUMBER | 5782 |
140. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 67 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 67 |               |      |
|  | SECTION 14/ 67 NOT IN DIRECTORY           | RECORD NUMBER | 5784 |
141. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 68 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 68 |               |      |
|  | SECTION 14/ 68 NOT IN DIRECTORY           | RECORD NUMBER | 5786 |
142. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 69 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 69 |               |      |
|  | SECTION 14/ 69 NOT IN DIRECTORY           | RECORD NUMBER | 5788 |
143. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 70 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 70 |               |      |
|  | SECTION 14/ 70 NOT IN DIRECTORY           | RECORD NUMBER | 5790 |
144. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 71 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 71 |               |      |
|  | SECTION 14/ 71 NOT IN DIRECTORY           | RECORD NUMBER | 5792 |
145. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 72 (0): Directory (b)*

- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 72 |               |      |
|  | SECTION 14/ 72 NOT IN DIRECTORY           | RECORD NUMBER | 5794 |
146. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 73 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 73 |               |      |
|  | SECTION 14/ 73 NOT IN DIRECTORY           | RECORD NUMBER | 5796 |
147. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 74 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 74 |               |      |
|  | SECTION 14/ 74 NOT IN DIRECTORY           | RECORD NUMBER | 5798 |
148. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT= 91 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT= 91 |               |      |
|  | SECTION 14/ 91 NOT IN DIRECTORY           | RECORD NUMBER | 5800 |
149. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT=102 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT=102 |               |      |
|  | SECTION 14/102 NOT IN DIRECTORY           | RECORD NUMBER | 5802 |
150. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT=103 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT=103 |               |      |
|  | SECTION 14/103 NOT IN DIRECTORY           | RECORD NUMBER | 5804 |
151. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT=104 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT=104 |               |      |
|  | SECTION 14/104 NOT IN DIRECTORY           | RECORD NUMBER | 5806 |
152. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=14, MT=107 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=6837, MF=14, MT=107 |               |      |
|  | SECTION 14/107 NOT IN DIRECTORY           | RECORD NUMBER | 5808 |
153. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT= 16 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT= 16 |                    |
|  | SECTION 15/ 16 NOT IN DIRECTORY           | RECORD NUMBER 5811 |
154. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT= 17 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT= 17 |                    |
|  | SECTION 15/ 17 NOT IN DIRECTORY           | RECORD NUMBER 5924 |
155. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT= 22 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT= 22 |                    |
|  | SECTION 15/ 22 NOT IN DIRECTORY           | RECORD NUMBER 5959 |
156. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT= 28 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT= 28 |                    |
|  | SECTION 15/ 28 NOT IN DIRECTORY           | RECORD NUMBER 6135 |
157. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT= 91 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT= 91 |                    |
|  | SECTION 15/ 91 NOT IN DIRECTORY           | RECORD NUMBER 6274 |
158. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT=102 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT=102 |                    |
|  | SECTION 15/102 NOT IN DIRECTORY           | RECORD NUMBER 6566 |
159. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT=103 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT=103 |                    |
|  | SECTION 15/103 NOT IN DIRECTORY           | RECORD NUMBER 7111 |
160. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT=104 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=6837, MF=15, MT=104 |                    |
|  | SECTION 15/104 NOT IN DIRECTORY           | RECORD NUMBER 7338 |
161. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=15, MT=107 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF=15, MT=107  
SECTION 15/107 NOT IN DIRECTORY RECORD NUMBER 7482

162. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=33, MT= 2 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF=33, MT= 2  
SECTION 33/ 2 NOT IN DIRECTORY RECORD NUMBER 7836

163. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=33, MT= 4 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF=33, MT= 4  
SECTION 33/ 4 NOT IN DIRECTORY RECORD NUMBER 7926

164. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=33, MT= 16 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF=33, MT= 16  
SECTION 33/ 16 NOT IN DIRECTORY RECORD NUMBER 7989

165. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=6837, MF=33, MT=102 (0): Directory (b)*

ERROR(S) FOUND IN MAT=6837, MF=33, MT=102  
SECTION 33/102 NOT IN DIRECTORY RECORD NUMBER 8001

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 166. L = 1 / STRENGTH FUNCTION IS 8.96488E-06 / STRENGTH FUNCTION 8.96488E-06 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.50000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ISOTOPE MASS = 166. L = 1  
STRENGTH FUNCTION IS 8.96488E-06  
STRENGTH FUNCTION 8.96488E-06  
... [1 more lines]

2. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 22 / THE CALCULATED Q 9.54811E+05 DISSAGREES WITH THE GIVEN Q 8.30908E+05 (0): Iffy Q*

FILE 3  
SECTION 22  
THE CALCULATED Q 9.54811E+05 DISSAGREES WITH THE GIVEN Q 8.30908E+05

• **groupie** Errors:

1. Very small elastic cross section found  
0: *Small elastic*

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

-----  
 ENDF/B Input and Output Data Filenames  
 ENDFB.IN  
 ENDFB.OUT  
 ... [97 more lines]

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel*

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"  
 WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"  
 WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"  
 WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 0 (n + Er166): / Form 'eval': / Component 0 (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 0 (n + Er166): / Form 'eval': / Component 1 (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 2 (n[multiplicity:'2'] + Er165 + gamma): / Form 'eval': (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 3 (Er167 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 3 (Er167 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. Found a negative probability  
*reaction label 1:  $n + \text{Er166.e1}$  / Product:  $n$  / Distribution: / angularTwoBody - XYs2d:  
(Error # 0): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 2.e7 eV, worst case: -0.000444220625596

2. Calculated and tabulated Q values disagree.  
*reaction label 26:  $n[\text{multiplicity:}'2'] + \text{Er165} + \text{gamma}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8354528.126190186 eV vs -8475370. eV!

3. Calculated and tabulated Q values disagree.  
*reaction label 27:  $n[\text{multiplicity:}'3'] + \text{Er164} + \text{gamma}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -15004596.15762329 eV vs -1.51257e7 eV!

4. Calculated and tabulated Q values disagree.  
*reaction label 28:  $n + \text{H1} + \text{Ho165} + \text{gamma}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7195920.30255127 eV vs -7316030. eV!

5. Calculated and tabulated Q values disagree.  
*reaction label 29:  $n + \text{H2} + \text{Ho164}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -12960175.72381592 eV vs -1.31318e7 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 30:  $\text{Er167} + \text{gamma}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 6556526.289520264 eV vs 6.4367e6 eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 31:  $n + \text{He4} + \text{Dy162} + \text{gamma}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 950368.5929260254 eV vs 830908. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 32:  $\text{H1} + (\text{Ho166.s} \rightarrow \text{Ho166} + \text{gamma})$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -952279.8907470703 eV vs -1071660. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 33:  $\text{H2} + (\text{Ho165.s} \rightarrow \text{Ho165} + \text{gamma})$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -4971354.201629639 eV vs -5091460. eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 34:  $\text{H3} + \text{Ho164.s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -6702942.783203125 eV vs -6873720. eV!



11. Calculated and tabulated Q values disagree.  
*reaction label 35: He4 + (Dy163-s ->Dy163 + gamma) (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7221376.299835205 eV vs 7102280. eV!

• njoy2012 Warnings:

1. Evaluation has no unresolved resonance parameters given  
*unresr...calculation of unresolved resonance cross sections (0): No URR*

---message from unresr---mat 6837 has no unresolved parameters  
 copy as is to nout

2. Evaluation has no unresolved resonance parameters given  
*purr...probabalistic unresolved calculation (0): No URR*

---message from purr---mat 6837 has no unresolved parameters  
 copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
 only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
 only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
 only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
 only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

```
---message from conver---cannot do complete particle production for mt= 32
                        only mf4/mf5 provided
```

8. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)*

```
---message from conver---cannot do complete particle production for mt= 91
                        only mf4/mf5 provided
```

- njoy2012 Errors:

1. An angular distribution is negative  
*acer...monte carlo neutron and photon data (0): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
                        4 for mt= 51 e= 2.000E+07
```